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TITLE: ELECTRICALLY CONDUCTIVE PAINT

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INVENTOR-INFORMATION:

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N/A

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ABSTRACT:

PURPOSE: To provide an electrically conductive paint which consists of Ag-Be-Cu type conductive powder, resin and solvent and is low cost and excellent in electrical conductivity and migration characteristics.

CONSTITUTION: Powdered alloy with a particle diameter of $0.05\sim 10\mu$, consisting of $10\sim 70\text{wt}\%$ Ag, $0.1\sim 3\text{wt}\%$ Be and balance Cu, is dipped in an organic solvent solution of 1,2,3-benzotriazole. Upon separation of the solvent and drying, electrically conductive powder surface coated with a thin film of a chelate compd. is obtained. Then the conductive powder, a thermosetting resin (e.g. xylene resin) and a solvent (e.g. ethyl carbitol) are kneaded to produce an electrically conductive paint. The paint is applied to phenolic resin substrate, etc. by screen printing, etc. and is cured in the air under heating to form electrode and conducting path.

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